

ABSTRACT

The present invention relates to a protein having effects of controlling cell migration and cell death of such as neurons and a DNA encoding the protein, and an object of the present invention is to provide control cell migration and/or cell death and a method for screening a promoter or an inhibitor of the effects of controlling cell migration and/or cell death with the use of proteins controlling the cell motility and cell death of neurons by interacting particularly with an actin-binding protein and promoting the degradation of the actin-binding protein and the DNA encoding the proteins. S-FILIP, L-FILIP and h-FILIP cDNAs, interacting with an actin-binding protein Filamin 1, and negatively controlling cell migration by promoting the degradation of the Filamin 1, and involved in the control of the cell death, were isolated and the full base sequences and amino acid sequences thereof were determined.